Miss Robinson's Maths Group Homework

Spring Week 3

Remember to set your work out clearly and write in pencil.

Please try all questions.

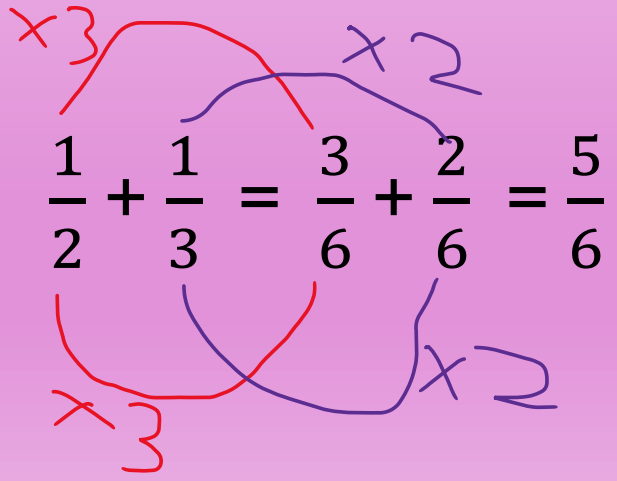
Please DO NOT print any of this homework. Write answers directly into your Homework Book and include any working out.

LI: to be able to add fractions with unlike denominators

From last term's lessons, remember that fractions must have the same denominator to be able to add and subtract them.

So, $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$

The denominator stays the say but you add the numerators.



Remember that 6 is the *lowest common multiple* of 2 and 3.

LI: to be able to add fractions with unlike denominators

1. $\frac{3}{4} + \frac{5}{8} =$

2. $\frac{2}{3} + \frac{1}{2} =$

3. $\frac{7}{8} + \frac{4}{5} =$

4. $\frac{9}{10} + \frac{1}{4} =$

5. $\frac{5}{8} + \frac{1}{3} =$

6. $\frac{7}{9} + \frac{1}{2} =$

7. $\frac{3}{10} + \frac{5}{6} =$

8. $\frac{1}{8} + \frac{1}{3} =$

9. $\frac{1}{12} + \frac{4}{5} =$

10. $\frac{1}{2} + \frac{1}{11} =$

11. $2\frac{1}{2} + \frac{1}{3} =$

12. $\frac{3}{5} + 1\frac{1}{4} =$

13. $2\frac{2}{3} + \frac{5}{8} =$

14. $3\frac{1}{4} + 1\frac{1}{8} =$

15. $2\frac{1}{5} + 1\frac{3}{4} =$

Look carefully. The lowest common multiple is often right before your eyes!

Convert all improper fractions to mixed numbers.

Learning Review

LI: to be able to calculate ratios and amounts

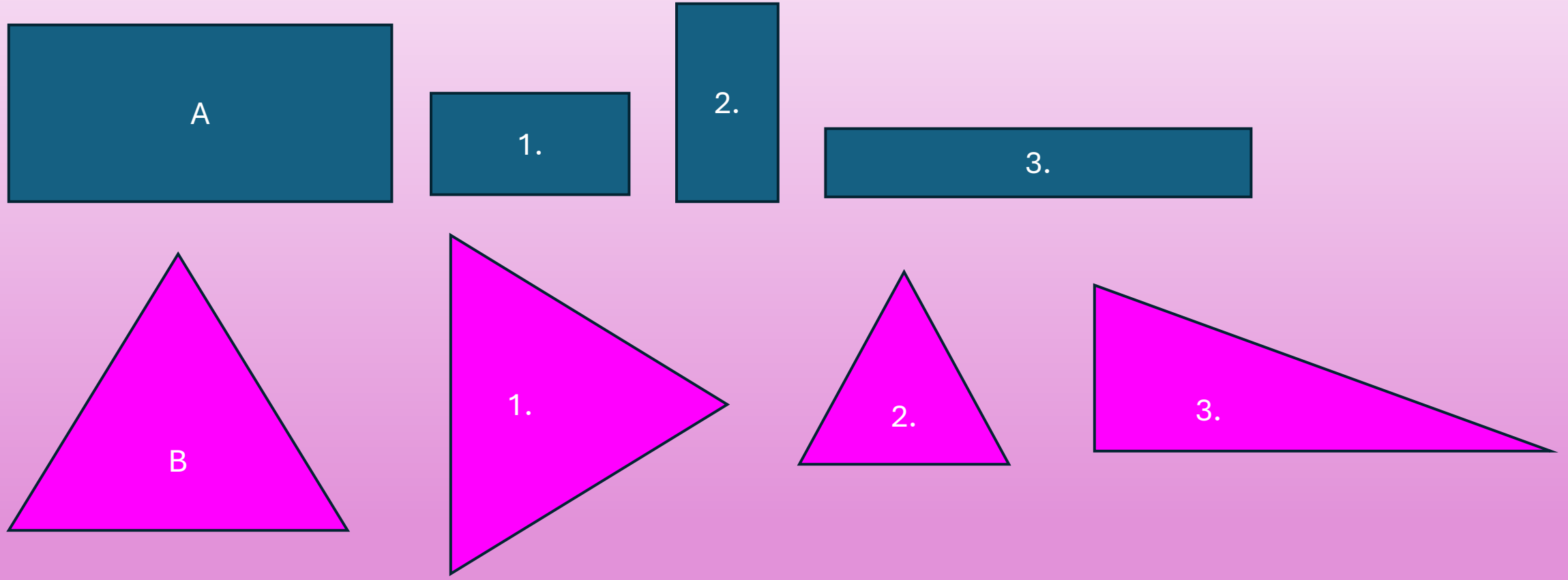
In a box of toffees, there are 3 types of toffee butter, peanut and caramel in the ratio of
B:P:C 2:4:3
If there are 72 toffees in the box, how many of each type of toffee will there be?

In a bag of marbles, there are red, purple, blue and pink marbles in the ratio R:P:B:Pi
2:4:5:2
If there are 6 red marbles, how many are there of each colour? How many are there in total?

When baking a cake, butter, flour and sugar are used in the ratio B:F:S 1:3:2.
If 120g of sugar is used, how much flour and butter will be used?

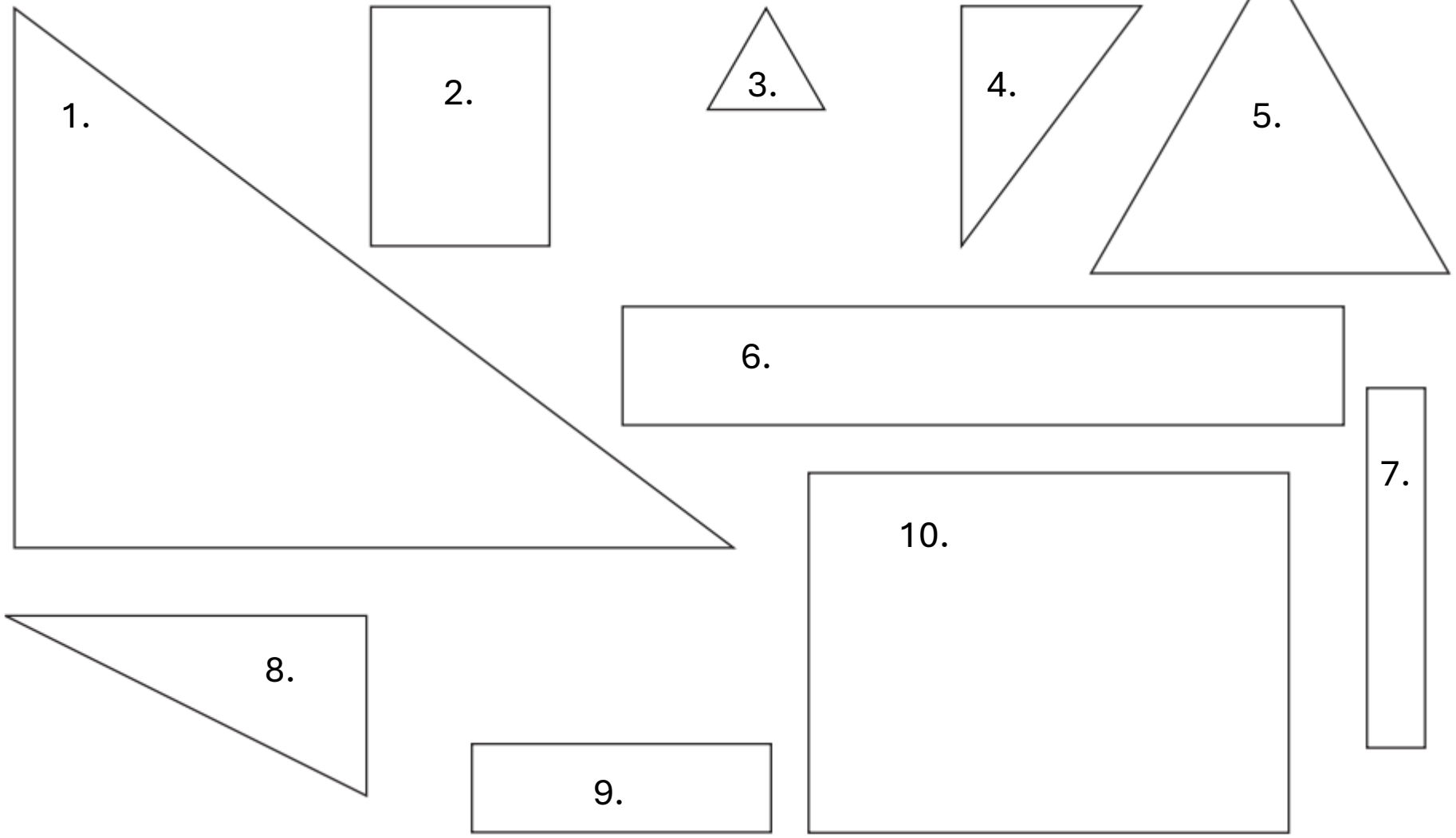
LI: to recognise similar shapes

Write the numbers of the shapes which are similar to the lettered shape.



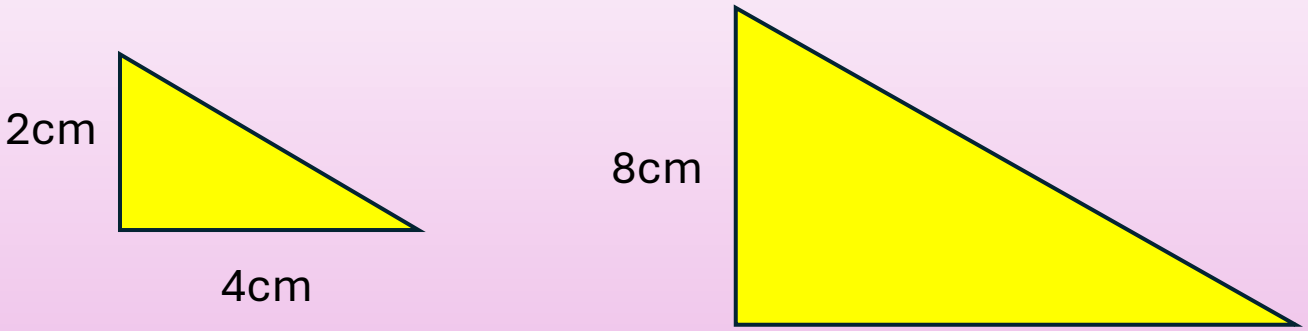
LI: to recognise similar shapes

Warning! When measuring, always round to the nearest cm.

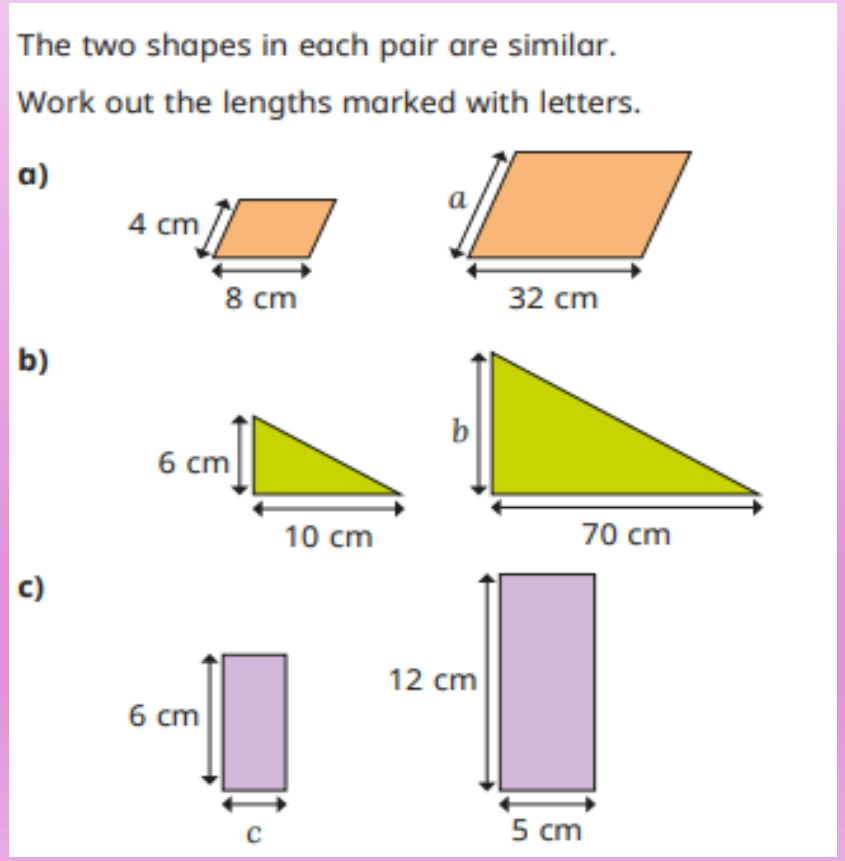


Write the matching pairs of letters in your Homework Book.

LI: to use scale factors in solving problems

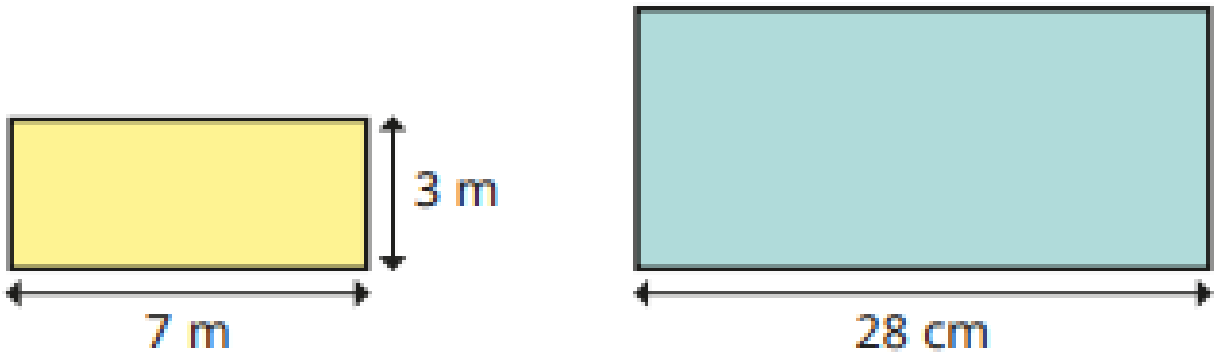


The triangle has been enlarged by a scale factor of 4 so the missing length is 16cm.



Look at the shapes a) b) and c).
Complete each and give the scale factor enlargement for all three.

LI: to use scale factors in solving problems



a) Work out the perimeter of the smaller rectangle.

b) Work out the perimeter of the larger rectangle.

What do you notice about your answers in part a) and part b)?

Discuss it with a partner.

Remember to bring any questions about the work into Monday's lesson.

Have a wonderful weekend!